



**Figure S1** The expression pattern of two GAL4 drivers in the *Drosophila* female ovary. A single ovariole is pictured for each genotype with the anterior tip, where the germarium is located, positioned to the left. Dark staining shows expression of the *UASp-lacZ* transgene under the control of either *P{GAL4::VP16-nos.UTR}CG6325<sup>MVD1</sup>* or *P{mata4-GAL-VP16}V37*. The earliest *lacZ* expression is indicated by an arrow. The *nanos-GAL4:VP16* driver begins to express early in oogenesis (in the germarium) while the *mata4-GAL-VP16* driver doesn't express until later (beginning in the vitellarium.) Method: Females carrying the driver and *UASp-lacZ* transgene (gift from P. Rørth, Singapore) were dissected in PBS and ovarioles were separated with a tungsten needle, maintaining connections to ovaries. Ovaries were fixed and stained for *lacZ* expression using the  $\beta$ -Gal Staining Kit from Invitrogen. After staining, ovaries were transferred to 60% glycerol/PBS for 30 min then mounted on a slide and ovarioles were further teased apart using a tungsten needle. Images were collected using a PixeLINK® CCD camera mounted on a dissecting microscope.